

Revit Documentation –

Date: 3/25/09

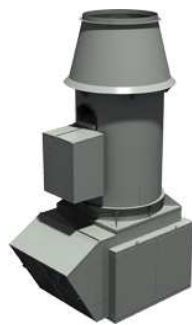
Example Model: *Vektor-MD*

Revit Model Name: **Vektor-MD.rfa**

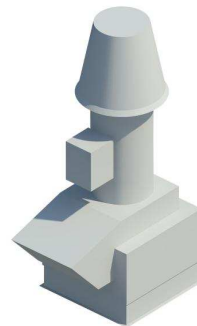
Solid ‘Engineering’ Models vs Revit Content

Greenheck employs state of the art technology in product design, on the left is a rendering of a solid model used in development of this product, on the right is a rendering of the parametric Greenheck Revit Model. **(Figure 1)**

Figure 1



GFC Solid Model



Parametric Revit Family

What sets Greenheck Revit Content apart from other manufacturers?

The whole package

Our Families are designed with our product configuration in mind. Common accessories; roof curbs, filter boxes, and weatherhoods etc. are optional/selectable items inside most families.

Commitment to Quality

If you have any issues **after** walking through the steps below please, contact us immediately. Many times it is as simple 5 minute phone call.

Content Contact:



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Recommended Procedure for loading Greenheck Revit Families

1. Complete a product selection in CAPS (Computer Aided Product Selection)

Consult your local Greenheck Representative or Download the Engineering version of CAPS directly from Greenheck.com/software/ to make a performance based product selection.

2. Generate a Submittal report.

The report contains all data to configure the family within the project.

3. Download Revit Families from Greenheck.com

Visit Greenheck.com/drawings/

Navigate to the specific product model you have selected in CAPS.

'Open' the corresponding .zip file by clicking on the [Revit](#) link.

Export **ALL** files (.rfa & .txt files) to your local library.

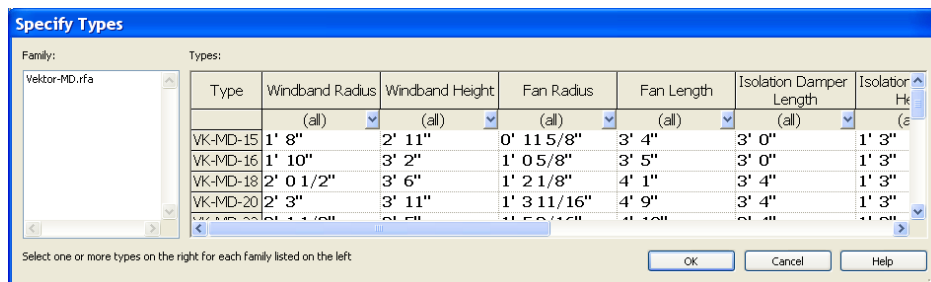
4. Load Content Families:

In Revit 2009 or newer while viewing your project, utilize a 'Component', 'Mechanical Equipment' etc. Function to import the Family. It is required to '**Load**' the family while in the project (**Figure 2**). If you open the family (.rfa) file in Revit and select 'Load into Projects' the external Type Catalog will not be accessed. When loading a model that has an associated .txt file the selection box will appear (**Figure 3**).

Figure 2 (Loading options)



Figure 3 (Select specific models to import to the project)



Note:

Select multiple, individual sizes by holding down **Ctrl** key.

Select a range by holding the **Shift** key.

*The filters are not suggested because they do not filter by a range, only specific values.

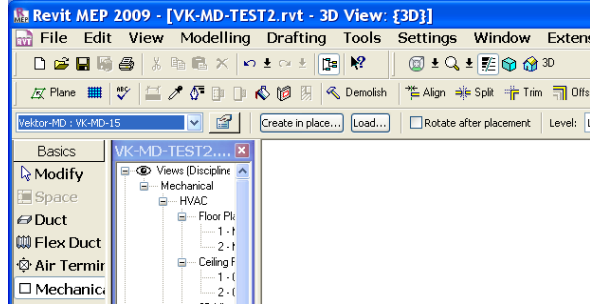
Click 'OK' to enter selection.

5. Insert individual instances into the project.

After selecting 'OK'.

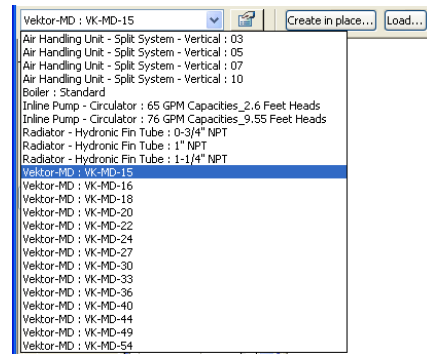
Note the upper left of the screen (Figure 4).

Figure 4 (Changing specific model selection)



The Family name will be listed with the specific model selected.
Ie.. <Family> : <Model>

Figure 5 (model selection)



Before placing the object in the 3D View, verify you are placing the correct model, By selecting the appropriate model through the drop down selection (Figure 5).
(The list will match the selection in Figure 3)

'Click' in a 3D View to place the individual model.

Congratulations Greenheck Manufacturer approved content is now in your Building Information Model!

6. Modify Configuration of Content.

Select an item or series of common items.

Edit the 'Element Properties' (Figure 6)

Figure 6 (Element Properties Button)

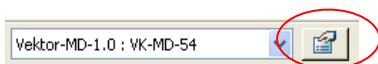
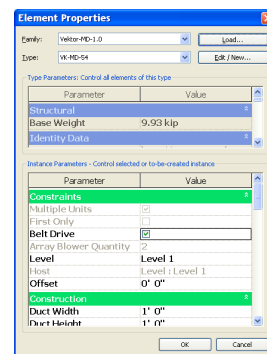


Figure 7 (Element Properties)



Customizable Selections vary per model (Figure 7):

Boolean (Yes/No) selections are for: Weatherhoods, Roof Curbs, Filter Boxes, Discharge locations etc.

Numerical (1, 5, 10", 10') selections are for variable entries: Blower Quantities, Roof curb Heights, Extension Lengths etc.

Note: Grey parameters utilize formulas driven by other Instance Parameters.

Appendix:

Common Pre-existing Instance Parameters (Misc Performance Data)

(Static Pressure) in-wg. Designed Pressure to handle at specific CFM.

(Air Flow Rate) CFM System is designed to handle

(Voltage) Voltage designated to power the unit.

(VFD) Signifies if the motors are controlled by a Variable Frequency Drive

(Phase) Phase that the motor load is utilizing.

(Electrical Load) Load amperage or horsepower that the system is designed to consume at full power.

(Total of all motors)

Adding Parameters (Instance Parameters ONLY)

Parameters set-up by type, are model specific and should not be changed, this is to retain the model integrity.

Greenheck can not ensure a quality model if these parameters are changed. All additions to Greenheck

Manufacturer content should be completed in the project as instance parameters.

To add additional data for use in your project, open the family, modify the Family Types by only adding 'Instance Parameters' (When adding parameters to the family, keep the value **blank or 0** (**Zero**) when editing the family, this will make sure values are not assumed in all locations)

For Reference, Model designation, Manufacturer, Descriptions and a link to additional model info is included.

Figure 8 (Example of all sizes, and selectable Quantity of Units)

